

From Hospital to Domiciliary Hospitalization: a Pharmacist Intervention

Ana Mafalda Brito¹, Ana Margarida Pires², Armando Alcobia², Filipa Alves da Costa¹

1 - Centre for Interdisciplinary Research Egas Moniz (CiiEM, ISCSEM), Caparica, Portugal.

2 - Hospital Garcia de Orta (HGO), EPE, Almada, Portugal



Background

In November 2015 a new model of hospitalization has been created in Portugal, domiciliary hospitalization unit (DHU). DHU is an alternative to the conventional hospitalization which provides hospital care to the acute patient, already existing in some other countries.¹ Care is provided at the patient's own home by a multidisciplinary team of physicians, nurses and pharmacists. This model emerges as a possible solution to the A&E excessive resource witch there is in Portugal.

Objectives

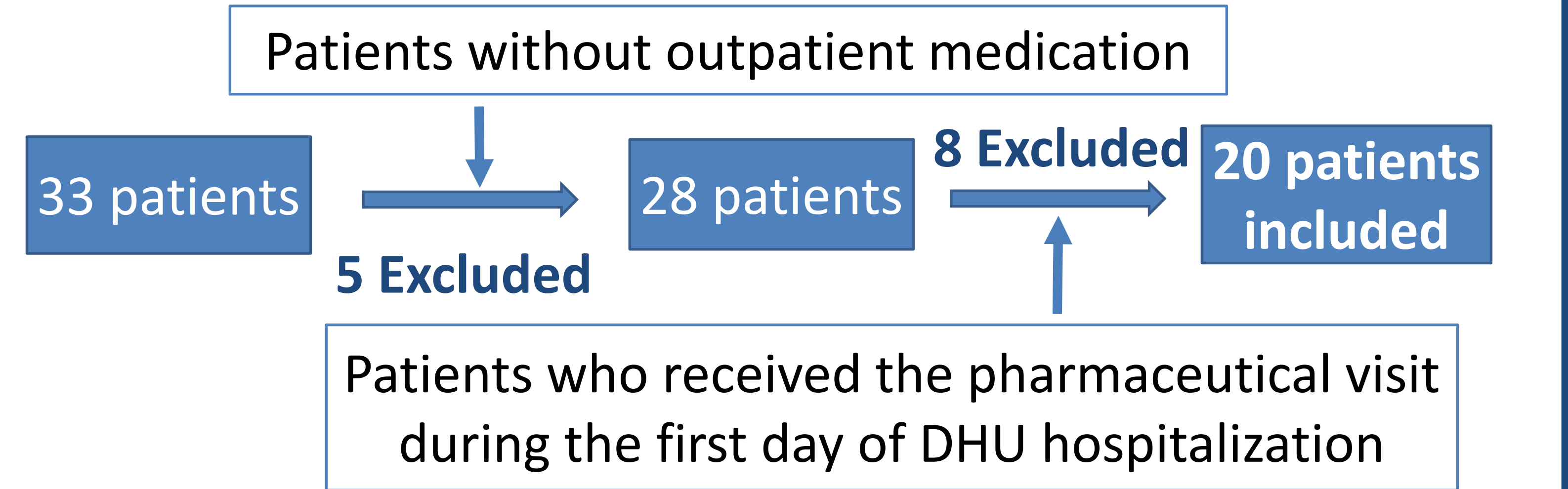
- To evaluate the existence of pharmacotherapeutic errors during patient transition across the health care system;
- To integrate a pharmacist into this multidisciplinary team to detect and solve those errors can through medication reconciliation;

Methods

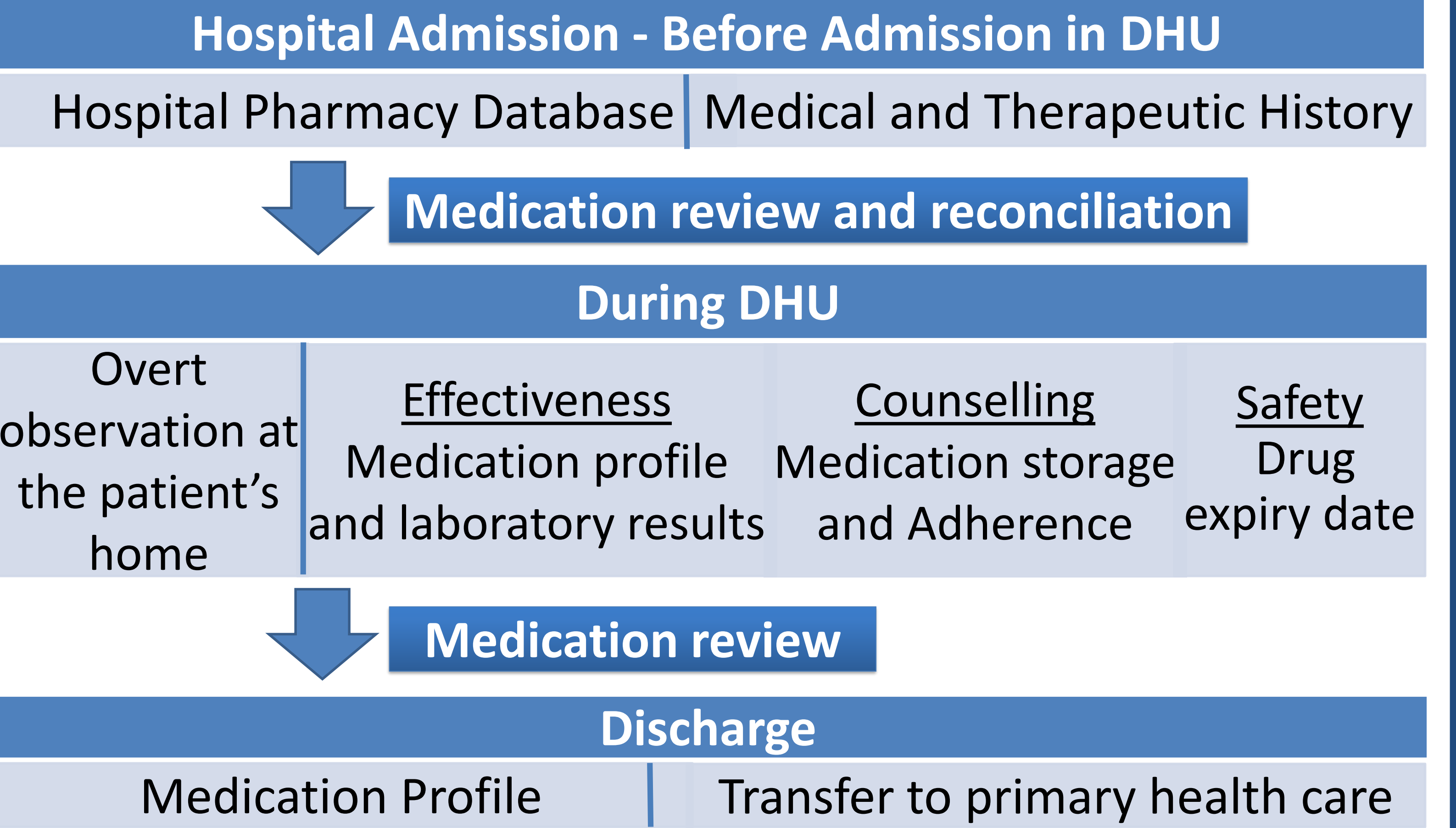
Study design

Observational retrospective design	Intervention prospective design
Explore medication discrepancies prior to DHU	To readily act upon discrepancies found during DHU

Sample - The data here presented are from patients hospitalized between August and September of 2016.



Data sources and Pharmacist Intervention

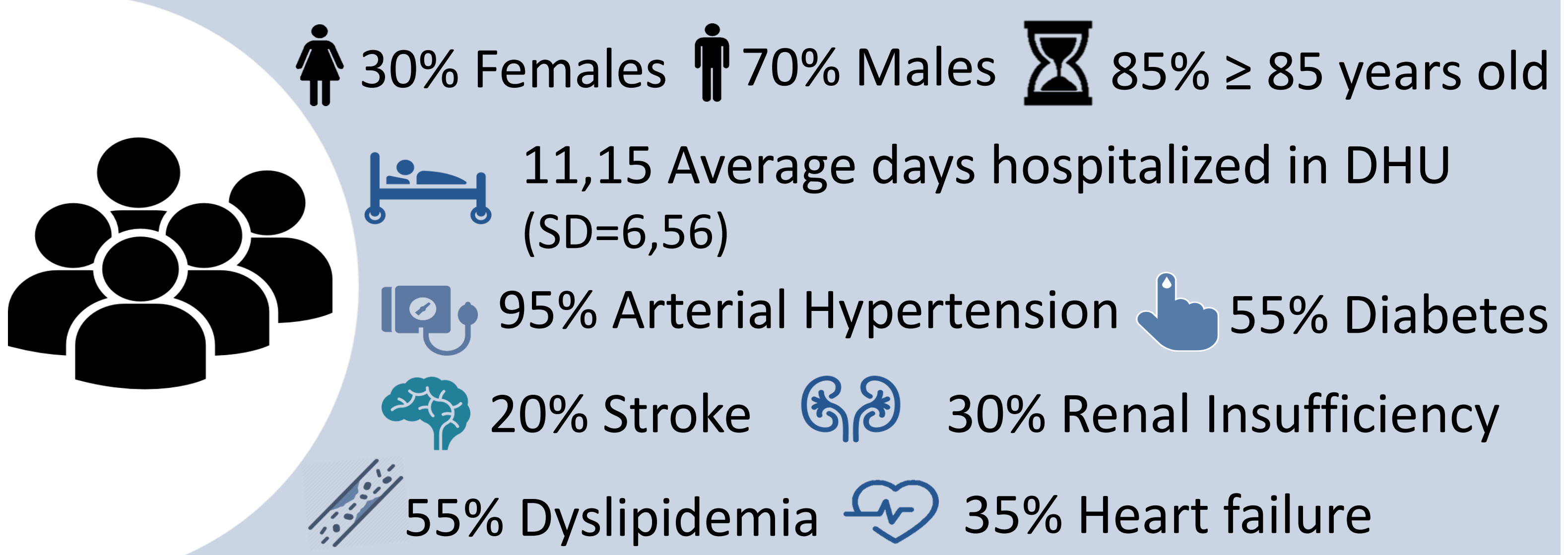


Statistical analysis - Statistical Package for the Social Sciences (SPSS) v.24,0. Descriptive and bivariate analysis have been used (Spearman correlation coefficient to explore associations between days of hospitalization and number of medication discrepancies). The confidence level was set at 5%.

Discussion and Conclusion

Drug omissions discovered by therapeutic reconciliation were reintegrated into the DHU prescription, after medication review. Patient's safety was the main focus of the pharmaceutical intervention, though which all medications omissions and incorrect dose detected were corrected. Pharmaceutical interventions also emphasized storage of medication, identification and collection of expired drugs, and further enhanced adherence to prescribed treatment. This poster presents first results of an ongoing project.

Results



The main reasons for **hospitalization in DHU** were urinary tract infections (44%), respiratory diseases (20%), acute kidney injury (12%) and cerebrovascular diseases (12%).

Therapeutic reconciliation was performed between the outpatient medications and the previous services, which were: A&E (50%), conventional hospitalization(45%) and DHU (16%).

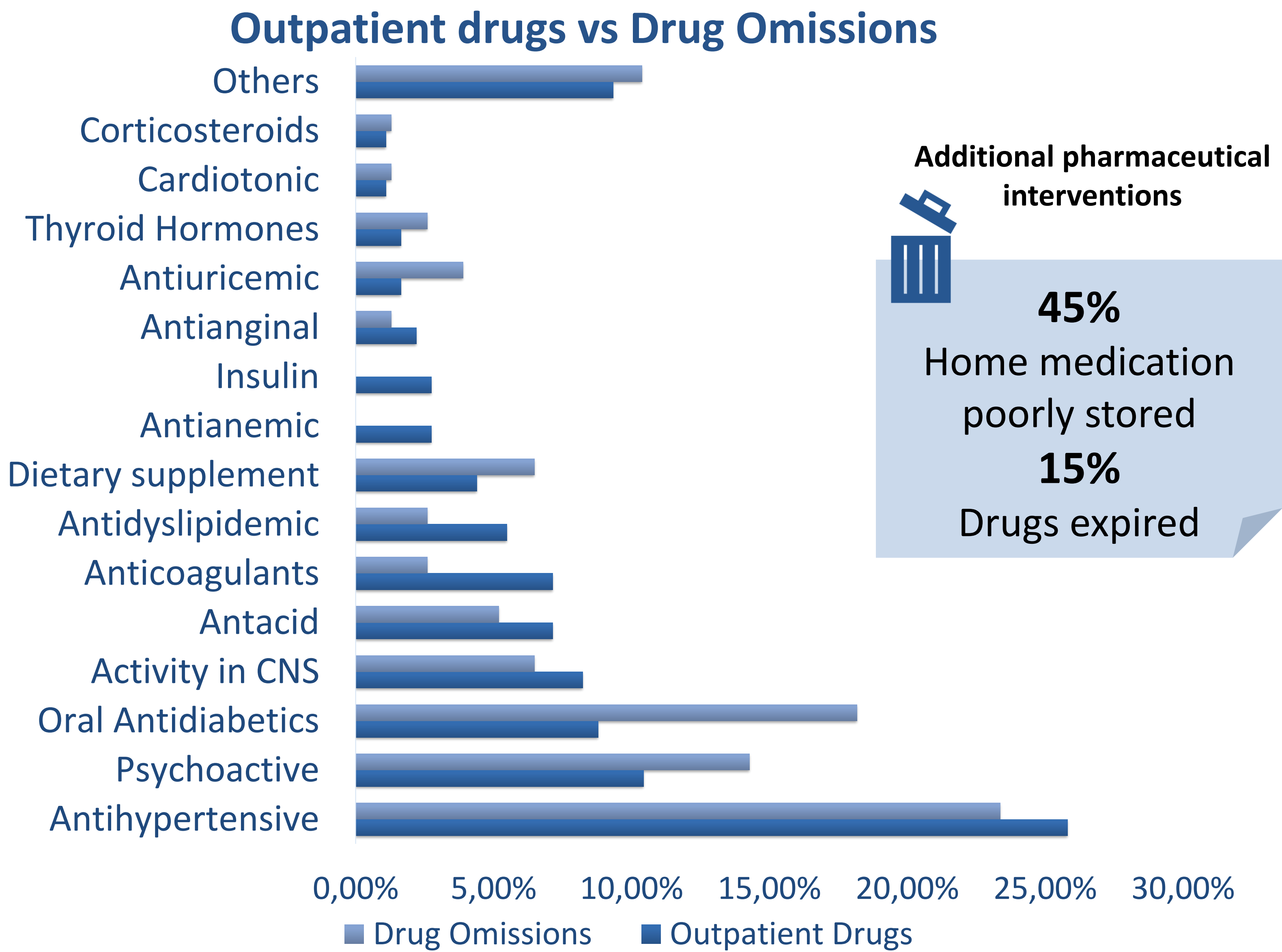
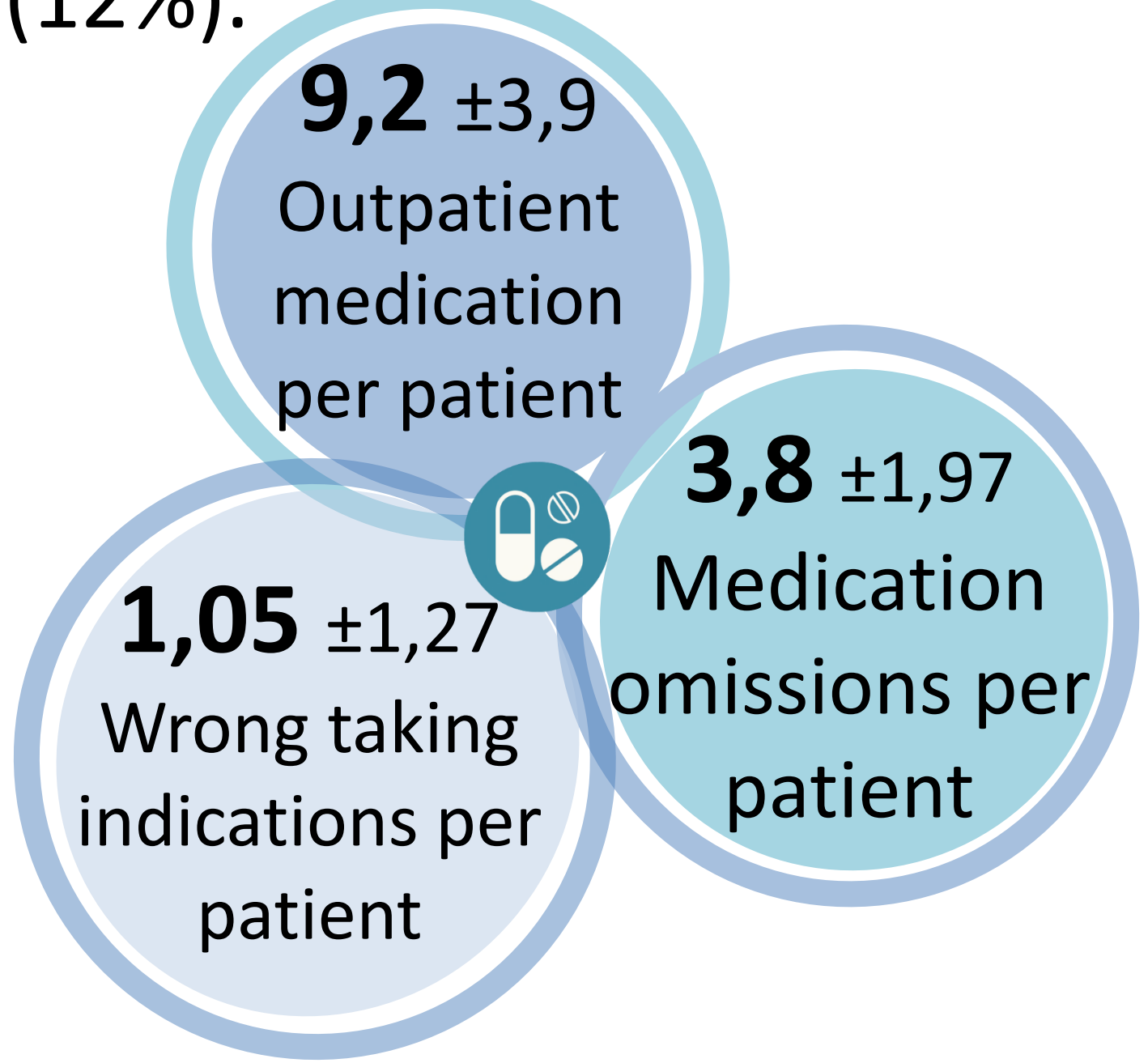


Figure 1: Comparation between outpatient drugs and drug omissions (between outpatient medication and the hospital prescription in the mentioned above services).

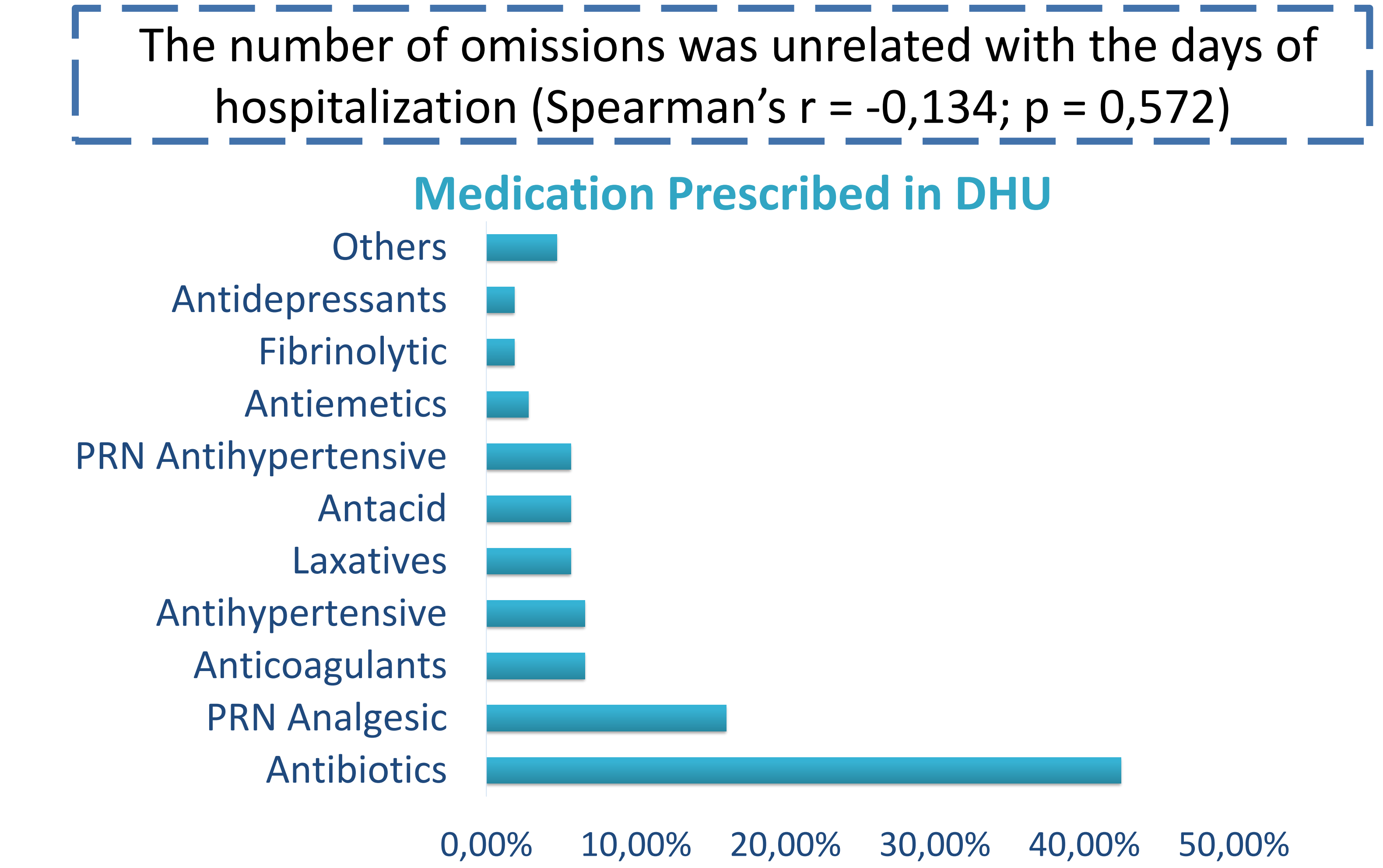


Figure 2: Medication prescribed during hospitalization in DHU in addition to outpatient medication.

References

1. Chevreur K., Com-Ruelle L., Midy F., Paris V. The development of hospital care at home: an investigation of Australian, British and Canadian experiences. IRDES 2004; 91